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Patent Plagnes

JP9062596A2: ELECTRONIC MAIL SYSTEM

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Country:

JP Japan .

Kind:

Inventor(s):

**NISHIOKA GENJI** 

Applicant(s):

HITACHI LTD

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Issued/Filed Dates:

March 7, 1997 / Aug. 25, 1995

Application Number:

JP1995000217678

IPC Class:

G06F 13/00; G09C 1/00; G09C 1/00; G09C 1/00; H04L 9/32; H04L 12/54; H04L 12/58;

Abstract:

Problem to be solved: To improve the security related to

transmission/reception of electronic mails.

Solution: This system consists of a data base 100 where the public key of each user is registered, at least two information processors 101a and 101b, and IC cards 103a and 103b. Secret keys of users carrying IC cards 103a and 103b and the public key of an authenticating station are stored in memories of IC cards 103a and 103b. In a transmission source A (information processor 101a), its own secret key stored in the memory is used in the IC card 103a to generate a digital signature for transmission data which includes mail data P, user information la for discrimination of the transmission source A, user information for discrimination of a transmission destination B, and time information T specifying the transmission date. In a reception side B (information processor 101b), the transmission source, the destination, and the generation date of the electronic mail are verified based on the digital signature included in the received electronic mail.

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Other Abstract Info.

DERABS G97-217348 DERG97-217348

Foreign References:

(No patents reference this one)

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Alternative Searches

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U.S. Class by title

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Disclosure Bulletin

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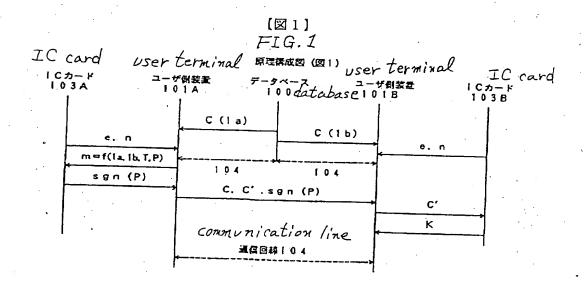
3. Title: AN ELECTRONIC MAIL SYSTEM
Laid-open Publication Number: 9-62596

Date of Publication: March 7, 1997

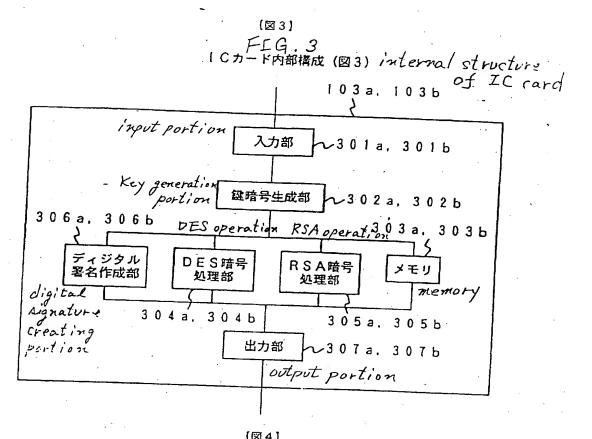
Applicant: HITACHI

Summary: A digital signature sgn(P) is created by a digital signature creating portion 306a in IC card 103a from data to be transmitted including an address of receiver, an address of sender, time and date, and a male text using a secret key stored in a memory 303a, as shown in Figs.3 and 4, when the data processing apparatus 101A is the source and the data processing apparatus 101B is the destination. The data processing apparatus 101B obtains a public key from a database 100 and verifies the received data using the public key.

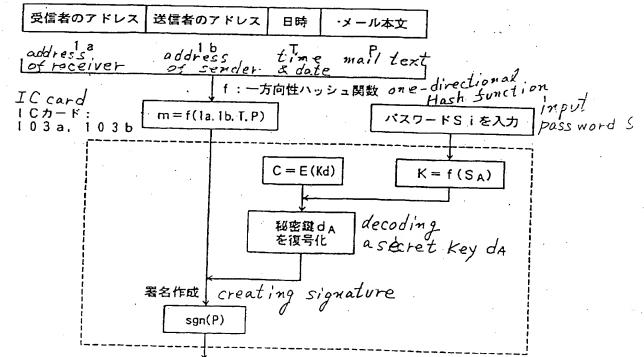
The English translation of terms used in Figs.1, 3 and 4 is attached hereinafter.



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[図4] FIG. 4 transmission data 署名作成手順(図4) signature creating process 送信テータ



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Document 1

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**Derwent Title** 

Electronic mail encryption system for managing security of transmission and reception of electronic mail in Internet produces digital signature using secret key of transmitting agency and adds digital signature to transmitting information of electronic mail

Patentee details

(HITA) HITACHI LTD;(HITA)

Inventor names

No Data

**Abstract** 

JP-09062596 A; The system has a data base (100) in which the open key of each user is registered. The secret and the open keys of the user are stored in the memory of a pair of IC cards (103A,103B). A digital signature production part produces the digital signature using the secret key of a transmitting agency. A transmitter adds the digital signature with the transmitting data of the electronic mail and transmits the electronic mail to a receiving side. The transmitting data contains the user information and the transmitting time. The digital signature production part verifies the transmission place and transmitting origin of the electronic mail using the open key of the transmitting agency. The transmitting agency and the specific user information are verified using the secret key of the transmitting agency. The receiving side verifies the address, the production time and the digital signature contained in the electronic mail received from the transmitting origin of the electronic mail.

Advantage

Improves security of transmission and reception of electronic

mail.

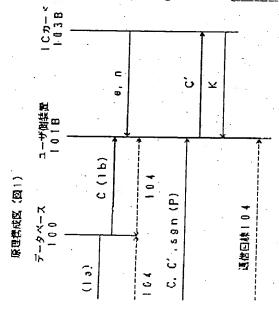
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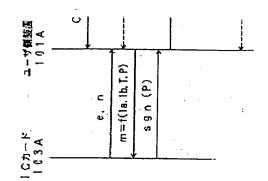
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Title Terms

std; electronic mail encryption system manage secure transmission reception electronic mail produce digital signature secret key transmit agent add digital signature transmit information electronic mail

Patent: JP 09062596 A - Image No.: 1 [Hi Res Image]





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Patent Family	Country & No.	Date	Kind	Derwent Week	Patent Delivery			
	JP-09062596	07-Mar- 1997	<b>A</b> .	199720	Download			
Priority details	Country & No.	Date	-					
	JP-0217678	25-Aug- 1995	;. ;.					
Application details	Country & No.	Date	•					
1	JP-0217678	25-Aug- 1995			·			
Earliest Priorit	y 25-Aug-19	995						
<u>IPC</u>	G06F-013 H04L-012	/00; <u>G09C-0</u> /58	001/00; <u>F</u>	104L-009/32; <u>H</u> 04	L-012/54;			
<b>Derwent Class</b>	P85	GENERAL / Education, cryptography, adverts						
	<u>T01</u>			ntrol / Digital Con				
	<u>W01</u>	Communications / Telephone and Data Transmission Systems.						
Manual coding	<u>T01-</u> <u>H07C1</u>	Data storage and memory, interconnection, data transfer / Electronic mail						
·	<u>W01-</u> <u>A05A</u>	Digital information transmission / Blockwise coding using registers/memories						
	<u>W01-</u> A06E1	Digital information transmission / Access and routing						
	<u>W01-</u> <u>A06G</u> 2	Digital information transmission / Stored and forward switching						
· ·	<u>W01-</u> <u>A06X</u>	Digital information transmission / Other						
Citations	No data av	No data available, please see the help files for more information						
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